



Dr. Mitchell, left, Mr. Mazuch and Dr. West check results on one of the Chemistry Department's nuclear magnetic resonance spectrometers.

PESTICIDE

The University of Victoria's Chemistry Department has discovered an impurity suspected to be toxic in a common pesticide called methoxychlor.

The pesticide, which can be purchased under several brand names and which replaced DDT as a spray found to be hazardous to the environment, is being analyzed by student chemist Ludvik Mazuch under the supervision of Chemistry Professors Dr. P.R. West and Dr. R.H. Mitchell.

Dr. West said that Mr. Mazuch, who is one of six students being employed this summer by the Chemistry Department under the B.C. Department of Labor's "Industry Initiative 74" programme, has so far discovered how the impure byproduct gets into the product and how it can be removed.

Dr. Mitchell said they had asked the Data Centre in Columbus, Ohio for a bio-screen of the impurity, but the centre was unable to verify its toxicity since no stud-

ies had yet been carried out on it. The centre did say, however, that similar products to the impurity have been proved dangerous.

"Chances are that it is dangerous to the health, although this is speculation to some extent," Dr. Mitchell said.

The next step will be to have a biological testing station determine whether the impurity is toxic. This will take several months of testing.

Dr. West said that if it proves harmful "we will blow the whistle on it through international journals".

He said that because of the Labor Department programme, which shares the cost of wages on a 50-50 basis with the Chemistry Department, Mr. Mazuch and the other five students are able, while working, to advance their knowledge of chemistry and to bring within one summer some kind of fruitful results from their experiments.

The projects are also geared to the needs of the community, rather than being long-range esoteric research, he said.

ARMS CONTROL EXPERT

William Epstein, a United Nations expert in disarmament and arms control, has been contracted by the University of Victoria as a visiting professor in History.

With his appointment which becomes effective immediately, "UVic will be the first university to offer undergraduate courses in disarmament and arms control given by an international expert", Dr. R.H. Roy, Professor of Military and Strategic Studies, said in making the announcement.

Mr. Epstein, 62, a native of Calgary, is a Special Fellow of the United Nations Institute for Training and Research (UNITAR) and was for many years the Director of the Disarmament Division of the UN Secretariat.

"He is quite a catch," said Dr. Roy, who is hopeful Mr. Epstein will stay on for two years.

Mr. Epstein will retain consultant status with the UN and make regular periodic visits to New York from here, Dr. Roy said.

He will teach a fourth-year history course called Canadian External and Defence Policy and a third-year course stressing arms control.

Mr. Epstein's credentials and record of achievements are long and impressive.

As UN Director of Disarmament, he represented the Secretary-General at the Conference of the Committee on Disarmament in Geneva and attended all of its sessions from its inception in 1962 until 1973.

He was for a number of years the senior Canadian national on the permanent staff of the UN Secretariat, and has been continuously involved in arms control and disarmament since 1950.

He has been Secretary of the UN Disarmament Commission since 1952 and has represented the Secretary-General at various official conferences in Geneva on the nuclear test ban. He has also drafted almost all of former Secretary-General U Thant's statements on arms control and dis-

armament.

Mr. Epstein was technical consultant to the Preparatory Commission for the Denuclearization of Latin America, which agreed in 1967 to a treaty prohibiting nuclear weapons.

In 1969, he was chairman of an international group of experts which prepared a report on chemical and biological weapons for the Secretary-General at the request of the General Assembly.

Mr. Epstein is a member of the Commission on International and Strategic Studies (Canada), the International Institute for Strategic Studies (London), the New York-Carnegie Endowment Arms Control Seminary, the Canadian Institute of International Affairs and the Pugwash Conferences on Science and World Affairs.

He has taken part in many seminars and conferences and has lectured in different parts of the world on problems of peace and international security.

He holds a Rockefeller Foundation Fellowship in "Conflict in International Relations", and is the author of a number of articles on disarmament. He supervised the preparation of many UN publications, including "The United Nations and Disarmament 1945-1970". In 1971, the Canadian Institute of International Affairs published a book by him, "Disarmament: 25 Years of Effort".

Mr. Epstein was educated at the University of Alberta (B.A. and LL.B. with first-class honours and the Chief Justice's Gold Medal in Law), and carried on post-graduate studies in International Affairs at the London School of Economics. He holds an honorary Doctor of Laws degree from the University of Calgary.

He left his private law practice to enlist as a private in the Canadian Army during the Second World War, and he rose to the rank of Captain.

After the war he joined the UN Preparatory Commission Secretariat in London and later worked on the Secretariat of the Security Council.

In 1948 he was a senior political officer in Palestine, and was head of the Middle East Section of the Secretariat until 1950. He was chairman of the United Nations Staff Association in 1949-50.

Dr. Roy said Mr. Epstein was first approached for the teaching job when he was here last year to deliver special lectures, after he had been recommended by Dr. Hugh Keenleyside, former Canadian representative to the UN.

COMPUTER SERVICE EXPANDS

Major hardware improvements undertaken this summer by the University of Victoria Computing Centre will result in broadened services to campus users.

David Stothard, Manager of Computing Services, said the most significant change will be the introduction of time-sharing services.

This will allow students and faculty to interface with the Central Processing Unit (CPU) through department hookups.

Mr. Stothard said that time-sharing will begin on a small scale and that present batch service will be maintained. Up to now all time-sharing services were provided by hookups to computers at Simon Fraser University and the University of British Columbia.

At present the departments of Mathematics, Psychology, Anthropology and Sociology, the Faculty of Education, and the Library have time-sharing terminals.

Mr. Stothard said the new hardware installations have markedly increased the capacity and speed of the computing system.

The storage capacity of the core unit, the CPU, has been increased 50 per cent, from 512 thousand characters to 768 thousand characters.

In secondary storage units, new disk drives and tape drives have been installed.

This means that the disk units will be able to store 500 million characters instead of 240 million, and will have an increased transfer rate to the CPU of 806 thousand characters per second, compared to the previous 312 thousand. This represents a doubling of storage and a more than doubling in transfer speed.

The tape units will also be doubled in speed, from 80 thousand characters per second to 160 thousand.

The time-sharing services being made available will include APL (A Programming Language), which will be used mostly by students, CAI (Computer Assisted Instruction), and ATS (Administrative Terminal System), which is basically a system for using the computer to prepare, edit, correct, store and produce documents.

The Computing Centre has become a key service on the campus as more and more departments use its system. Over the past year, an average of 15,000 computer jobs a month have been put through the system.





The new Physical Education and Recreation Complex is taking on a futuristic look as it approaches its final stages of completion. Upper left is a view of air ducts, which are painted bright orange, just inside the main entrance. Bottom left is the acrobatic and combatant gymnasium, which though high and spacy in itself is still much smaller than the main gymnasium's 22,000 square feet. Bottom right is a view of the swimming pool looking from the 14-foot-deep diving tank towards the shallow end. The pool is L-shaped and 25 meters long, with the diving tank being 25 yards long. It will have one-meter and three-meter boards and feature underwater viewing windows and an underwater sound system. David Titterton, Manager of the Complex, said the \$2.5-million structure should be ready in December. It will house the Physical Education Department and the Athletics office, and will also include physical fitness labs, a dance studio, six squash courts and a weight lifting room.



STUDENT AID MISUNDERSTOOD

The Provincial Department of Education's new student assistance programme is being misunderstood by many students seeking aid, according to Nels Granewall, Financial Aid Officer for the University of Victoria.

Mr. Granewall said that the recent announcement by Education Minister Eileen Dailly setting out the programme has regrettably left the impression in many persons' minds that they can now receive \$2,900 in grants and loans for each academic year.

"That doesn't happen to be the case at all."

He said he has been "having quite a time" explaining to students and the community at large that there is a necessary catch to the programme: Aid is only given out according to the student's assessed need.

He said most students who can prove need will receive much less than this, though more than they did under the old programme. The only person who might receive the maximum \$2,900 would be a married person with two dependents and whose total income goes towards the maintenance of his family. At the other end of the scale, students whose families are well off will receive no aid.

Mr. Granewall said the confusion has resulted because assessment guidelines weren't spelled out and because "people read into things what they want".

Assessment guidelines divide students into two categories: dependents and independents. To qualify as an independent, a student must be either married, have completed four years of post-secondary education, two periods of 12 consecutive months in the labor force, or a combination of 12 months of work and three years of post-secondary study.

Following is an example of what a first-year female student might receive if she was from a Victoria family of five, all living at home, including herself, and whose total annual income is \$10,000. Her total education expenses for eight months would be calculated to be \$1,700, which would cover tuition, books, room and board at home, miscellaneous, and local transportation. But she would be expected to contribute \$300 from summer earnings, another \$120 from possible other sources such as part-time work, and her family would be required to pay \$680, or a total

of \$1,100. She would then apply for the difference, which would be \$600 in aid.

"I have no quarrel with the intent of the programme, which is to aid those who really need it," Mr. Granewall said.

"If a poor widow in the Interior had a family of five and wanted to send her eldest daughter to university, there would be a social obligation to subsidize that student. But is it equally fair for taxpayers to support the children of a \$35,000-a-year business executive from an urban centre? Certainly not, of course."

He said the programme is clear in dealing with students from poor families and those from well-off families. But it becomes complicated in assessing students from middle-income families, who are in the majority.

In outlining the programme, Mrs. Dailly said the initial assessed need of a student is to be covered by a non-repayable grant of \$200 per educational year and the remainder by a combined grant and loan. Maximum provincial grant will be \$1,500, including the initial \$200, and the maximum federal loan will be \$1,400.

Mr. Granewall said two other significant changes are that aid is now available for students who are taking nine units of study, whereas it used to be a minimum of 12, and that part-time students, those taking less than nine units, will be assisted for the first time, if they prove need.

His Excellency Abdul Momin, High Commissioner for Bangladesh in Canada, recently visited the University of Victoria, and was welcomed by Vice-President S.A. Jennings. Mr. Momin was on a tour of the West to pay his respects to governments, familiarize himself with various institutions and to meet natives of Bangladesh who have immigrated here. After taking part in the liberation struggle of his country, he was appointed Under Secretary in the Ministry of Foreign Affairs at Dacca in December of 1971. With his appointment to Ottawa in May, 1972, Mr. Momin was also concurrently made Ambassador to Cuba.



Next Deadline

Friday, One week before publication

Published every Friday

By University Relations Office

Editor: Maurice Cownden

A summer of hard work, studies and rehearsals is nearly over for these high school students who will stage

William Shakespeare's "Taming of the Shrew" at the University of Victoria's Phoenix Theatre, August 9 to 16.

Director Colin Skinner said that the students have been involved in every aspect of producing the play, and that all will make up the cast. The students, from all over British Columbia, also had classes to attend as part of UVic's Senior Secondary Summer Theatre Workshop.

Each performance will begin at 8 p.m.

Tickets are \$2 for adults, \$1 for students and pensioners.



FACULTY NEWS

CHEMISTRY

Dr. Martin Hocking, who teaches Chemistry 301 Industrial Processes and the Chemistry of Pollution, was a member of an Environment Canada Task Force which recently visited the Athabasca Tar Sands oil recovery operations.

The group's objectives were to examine sample vegetation plots at varying distances and directions from the Great Canadian Oil Sands, Ltd. plant, and to be updated on improvements in the plant's emission controls and tailings revegetation progress.

Dr. Hocking is a member of the university's Interdisciplinary Environmental Studies Programme Committee.

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